

# **PEMS to OREIS RTL Review Troubleshooting Guide**

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Listed below are the errors you may see when running the PEMS to OREIS RTL Review and a short explanation of how to fix the errors so you can submit your project from PEMS to OREIS without any problems:

Error	Solution
Assoc QC Mandatory fields with no values	Fill in appropriate values for Associate Sample ID and Project Sample ID fields for records listed. These fields are mandatory.
Assoc QC No Match for Proj Sample ID in Samp Meas	The Project Sample ID associated with each Associate QC sample must match an existing Project Sample ID for this project. Either change the Project Sample ID in the Associate QC sample or add a sample with the appropriate Project Sample ID to the project.
Assoc SA Composites SCFROM and TCFROM Should have 2 or More Records for Proj Sample ID	Associate Sample Composites SCFROM and TCFROM should have two or more records for Project Sample Ids listed. Either add an additional record for the Project Sample Ids listed or change the Sample Composites SCFROM or TCFROM to another type.
Assoc SA Invalid Reason Code	The Reason Code for the Associate Sample listed is not valid. Either enter a valid Reason Code for records listed or ask PEMS Support to add new values to the valid value lists so this field will be valid.
Assoc SA Mandatory fields with no values	Fill in appropriate values for Associate Sample ID, Project Sample ID, and Associate Reason Code fields for records listed. These fields are mandatory.
Assoc SA No Match for Proj Sample ID in Samp Meas	The Project Sample ID associated with each Associate sample must match an existing Project Sample ID for this project. Either change the Project Sample ID in the Associate sample or add a sample with the appropriate Project Sample ID to the project.
Assoc SA Splits Should Have Only 1 Record for Proj Sample ID	Associate Sample Splits should have one record for Project Sample Ids listed. Either remove any additional records for the Project Sample Ids listed or change its type from an Associate Sample Split.
Field_Meas Date Collected After the Current Date	The Date Collected field is greater than today's date for the records listed. Enter the appropriate Date Collected for the records listed.
Field_Meas Invalid (Parameter, Chemical Name, Analysis Type) Combination	The Parameter, Chemical Name, and Analysis Type combination for the records listed is not valid. Either enter a valid Parameter, Chemical Name, and Analysis Type combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.

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Field_Meas Invalid (Station Name, Station Type, Site) Combination	The Station Name, Station Type and Site combination for the records listed is not valid. Either enter a valid Station Name, Station Type and Site combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.
Field_Meas Invalid Chemical Name/Parameter Combination	The Parameter and Chemical Name combination for the records listed is not valid. Either enter a valid Parameter and Chemical Name combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this field will be valid.
Field_Meas Invalid nonRAD Units	The Units used for the records listed is not valid for those Ana Types other than RAD. Either enter a valid Unit value for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this field will be valid.
Field_Meas Invalid Parameters	The Parameter field for the records listed is not valid. Either enter a valid Parameter for the records listed or ask PEMS Support to add new values to the valid value lists so this field will be valid.
Field_Meas Invalid RAD Units	The Units used for the records listed is not valid for RAD Ana Types. Either enter a valid Unit value for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this field will be valid.
Field_Meas Invalid Time Collected	The Time Collected field should not contain a colon (:) and should be between 0000 and 2400. Enter a valid time for the records listed.
Field_Meas Liquid Units Reported for a Solid Sample	The Units used for the records listed (Liquid Units) is not valid for a Solid sample. Either enter a valid Units value for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this field will be valid.
Field_Meas Mandatory date fields must be between 01-01-1950 and the current date	The Date Collected, Date End and Date Start fields for records listed must be between January 1, 1950 and today's date. Enter a valid date for the appropriate fields for the records listed. These fields are mandatory.
Field_Meas Mandatory fields with invalid codes	The Ana Type, Med Type, Station Type, Site, Units, or Validation fields for records listed are not valid. Either enter a valid value for the appropriate fields for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid. These fields are mandatory.

Error	Solution
Field_Meas Mandatory Fields With No Values	Fill in appropriate values for Ana Type, Date Collected, CAT Result, Results, Units, Chemical Name, Date End, Date Start, Med Type, Station Name, Station Type, Site, and Validation fields for records listed. These fields are mandatory.
Field_Meas Start Dates That Are After End Dates	The Date Start field is after the Date End field for the records listed. Enter the appropriate Date Start and Date End for the records listed.
RTL SAMP_MEAS Mandatory fields with invalid codes	The Ana Type, Lab Code, Matrix, Med Type, Site, Sample Type, Station Type, Units, or Validation fields for records listed are not valid. Either enter a valid value for the appropriate fields for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid. These fields are mandatory.
SAMP_MEAS Chemical Name/Parameter combination not found in OREIS	The Chemical Name and Parameter combination for the records listed is not valid. Either enter a valid Chemical Name and Parameter combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.
SAMP_MEAS fields with invalid codes	The Avg_Per, Fld_Proc, Lab_Proc, Non_Compli_Code, Rslt_Prefix_Qualifier, Smp_Cond, Sum_Method, Biol_Matl_Code, Dataqual, Lab_Tst_Code, Meas_Method, Purged_Unit, RF_Elv_Type, Rslt_Basis, Sex, Smp_Device_Tpe, Smp_Method or Data_Assessment fields for records listed are not valid. Either enter a valid value for the appropriate fields for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid.
SAMP_MEAS fields with invalid rsltqual codes	The Result Qualifier field for records listed is not valid. Either enter a valid value for the Result Qualifier field for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid.
SAMP_MEAS For ANA_METHOD = NIOSH-610, MATRIX must = AIR and UNITS must = mg/m3	If an Ana Method is "NIOSH-610", then Matrix must be "AIR" and Units must be "mg/m3". Enter the appropriate values for the Matrix and Units fields for the records listed whose Ana Method is NIOSH-610.
SAMP_MEAS Invalid (Station, Station Type, Site) combinations	The Station Name, Station Type and Site combination for the records listed is not valid. Either enter a valid Station Name, Station Type and Site combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.

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SAMP_MEAS Invalid Analysis Methods	The Analysis Method field for records listed is not valid. Either enter a valid value for the Analysis Method for the records listed or ask PEMS Support to add new values to the valid value lists so this field will be valid.
SAMP_MEAS Invalid Combination of RSLTQUAL and VALIDATION	The Result Qualifier and Validation combination for the records listed is not valid. Either enter a valid Result Qualifier and Validation combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.
SAMP_MEAS Invalid Parameters	The Parameter field for records listed is not valid. Either enter a valid value for the Parameter for the records listed or ask PEMS Support to add new values to the valid value lists so this field will be valid.
SAMP_MEAS Invalid Sample Type Codes for QC Data	The Sample Type field for the records listed is not valid for Stations named "QC". Either enter a valid Parameter for the records listed or ask PEMS Support to add new values to the valid value lists so this field will be valid.
SAMP_MEAS Invalid Sample Type/Station Name Codes for QC Data. When either Station Type or Name is QC, Then Both Must be QC	The Station Type or Station Name fields for the records listed is not valid because at least one of these fields is named "QC". Either change both the Station Type and Station Name fields to be QC for the records listed or modify the field that is incorrectly named QC.
SAMP_MEAS Mandatory date fields must be between 01/01/1950 and the current date	The Date Collected, Date Analyzed, Date End and Date Start fields for records listed must be between January 1, 1950 and today's date. Enter a valid date for the appropriate fields for the records listed. These fields are mandatory.
SAMP_MEAS Mandatory fields with no values	Fill in appropriate values for Ana Method, Ana Type, Date Collected, CAT Result, Results, Units, Chemical Name, Date End, Date Start, Lab Code, Matrix, Med Type, Parameter, Site, Sample Type, Station Name, Station Type and Validation fields for records listed. These fields are mandatory.
SAMP_MEAS Missing Data Assessment Code	An analytical result record has no Data Assessment code and the Validation Qualifier for that record is 'DA'. To resolve the error, either change the Validation Qualifier or add a Data Assessment code to the result.
SAMP_MEAS Missing Field QC Association	These Sample Measurement records listed do not have Associated Field QC records. Associate a Field QC record for each sample listed.
SAMP_MEAS Retention Time Greater Than 999.99	The Retention Time is greater than 999.99 for the records listed. Enter the appropriate Retention Time for the records listed.

Error	Solution
SAMP_MEAS Retention Time Validity Check. If Parameter = NS271 then validation must = (NJ, XX, XV, or XZ) and, c_lab_meas must not be missing, and Retention Time Must Not Be Missing	If Parameter is NS271, then Validation must be NJ, XX, XV, or XZ and C_Lab_Meas must not be null and Retention Time must not be null. Enter the appropriate values for the Validation, C_Lab_Meas and Retention Time fields for the records listed whose Parameter is NS271.
SAMP_MEAS Sample Start and End Depths Cannot be Blank If MED_TYPE or MATRIX is SOIL	Fill in appropriate values for Sample Start Depth and Sample End Depth fields for records listed whose Med Type or Matrix is SOIL. These fields are mandatory for Soil samples.
SAMP_MEAS Start Dates That Are After End Dates	The Date Start field is after the Date End field for the records listed. Enter the appropriate Date Start and Date End for the records listed.
SAMP_MEAS Start Level Greater Than End Level	The Start Level field is greater than the End Level field for the records listed. Enter the appropriate Start Level and End Level for the records listed.
SAMP_MEAS Start/End Level Out of Range (0 to 1000)	The Start Level or End Level field is not in the range of 0 to 1000 for the records listed. Enter the appropriate Start Level and End Level for the records listed.
SAMP_MEAS Time Collected has a Colon or Time is Outside the 0000 to 2400 range	The Time Collected is not in the range of 0000 to 2400 or contains a colon (:) for the records listed. Enter the appropriate Time Collected for the records listed.
SAMP_MEAS TPU_Level Value of 1 or 2 Required for ALL TPU Submissions	The TPU field contains a value and the TPU Level is not a 1 or a 2 for the records listed. Either change the TPU Level of the record to be a 1 or a 2 or remove the TPU and TPU Level values for the records listed.
SAMP_MEAS TPU Value Detected for Nonrad Results	The TPU field contains a value for the records listed whose Ana Type is not RADS or METAL. Either change the Ana Type of the record to be RADS or METAL or remove the TPU value for the records listed.
SAMP_MEAS with invalid parameter/ana_type combinations	The Parameter and Analysis Type combination for the records listed is not valid. Either enter a valid Parameter and Analysis Type combination for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.
SAMP_MEAS with invalid Rad units	The Unit value for the RAD Ana Type records listed is not valid. Either enter a valid Unit value for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this combination will be valid.
Station Mandatory Fields with Invalid Codes	The Received Coordinate System, Site and Station Type fields for records listed are not valid. Either enter a valid value for the appropriate fields for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid. These fields are mandatory.

Error	Solution
Station Mandatory Fields With No Values	Fill in appropriate values for Received Coordinate System, Received X, Received Y, Site, Station Name, Station Type and Received Coordinate System/Datum fields for records listed. These fields are mandatory.
Station Non-Mandatory Fields with Invalid Codes	The Location Method and Station Status fields for records listed are not valid. Either enter a valid value for the appropriate fields for the records listed or ask PEMS Support to add new values to the valid value lists so these fields will be valid.
Warning: Duplicate Field Measurement Results	The records listed appear to be duplicate Field Measurement results. Check the records listed and if they are duplicates, delete one set of the data.
Warning: SAMP_MEAS DETECT_LIMIT recommended if ANA_TYPE = RADS	If an Ana Type is "RADS", then Detection Limit is recommended to be entered. Enter the appropriate values for the Detection Limit field for the records listed whose Ana Type is RADS.
Warning: SAMP_MEAS Dilution Factor Out of Range (0 to 5000)	The Dilution Factor field is not in the range of 0 to 5000 for the records listed. Enter the appropriate Dilution Factor for the records listed.
Warning: SAMP_MEAS Liquid Units Reported for a Solid Sample	The Units used for the records listed (Liquid Units) is not valid for a Solid sample. Either enter a valid Units value for the records listed or ask PEMS Support to add appropriate values to the valid value lists so this field will be valid.
Warning: SAMP_MEAS RAD_ERR recommended if ANA_TYPE = RADS	If an Ana Type is "RADS", then Rad Error is recommended to be entered. Enter the appropriate values for the Rad Error field for the records listed whose Ana Type is RADS.
Warning: SAMP_MEAS RADS/UNITS combination warning	The Units field for records listed indicate that the Ana Type is RADS and the units are either "ug/L" or "mg/L". These units are not typically used with the Ana Type of RADS. Check Units and Ana Type fields to see if they are accurate.
Warning: SAMP_MEAS with Units that Indicate that ana_type potentially should be RADS	The Units field for records listed indicate that the Ana Type should probably be RADS. Check Units and Ana Type fields to see if they are accurate or ask PEMS Support to add new values to the valid value lists so these fields will be valid.